



Expression Vector for Hirudin and Transformant Cells  
and Transgenic Animals Containing Said Vector  
Inventors: Chieh-Sheng Lin, Yu-Ling Sun, Ping-Chen Yang  
Ching-Fu Tu, Shinn-Chih Wu  
Application No.: 10/053,641  
Docket No. P1393

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Seq1: Hi-AF (104 mers)

5'-gatcctttatggttggttacactgactgactgaatccggtcagaacctgtgcctgtg  
cgaaggctctaacgttgcggccagggcaacaaatgcatacctgggc-3'

Seq2: Hi-AR (107 mers)

5'-ctctagagcccaggatgcatttggtgccctggccgcgaacggttagagccttcgcacag  
gcacagggtctgaccggattcagtgcaagtcagtgtaaaccaaccataaag-3'

Seq3: Hi-BF (111 mers)

5'-tctagaggcgaaaaaatcaatgcgttactggcggaagggtactccacaaggctttgaat  
cccggagaatagaaaccgcagttctccgacgacagaacctgcaataatagggc-3'

Seq4: Hi-BF (108 mers)

5'-ggccgacctattatgacaggtattcttcgggattcttcaaagtcgccgtcggttg  
agactgcgggttcggagtagcttcgccagtaacgcattgatTTTTgcg-3'

Figure 1



Expression Vector for Hirudin and Transform Cells  
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Seq5: Hi-PCR-AF (33 mers)  
5'-tcgggatcctttatggtgtttacactgactgc-3'

Seq6: Hi-PCR-AR (31 mers)  
5'-gcctctagagcccaggatgcatttgttggcc-3'

Seq7: Hi-PCR-BF (38 mers)  
5'-ggctctagaggcgaaaaaatcaatgcttactggcga-3'

Seq8: Hi-PCR-BR (32 mers)  
5'-catgcggcgccctattattgcaggattatt-3'

Figure 2



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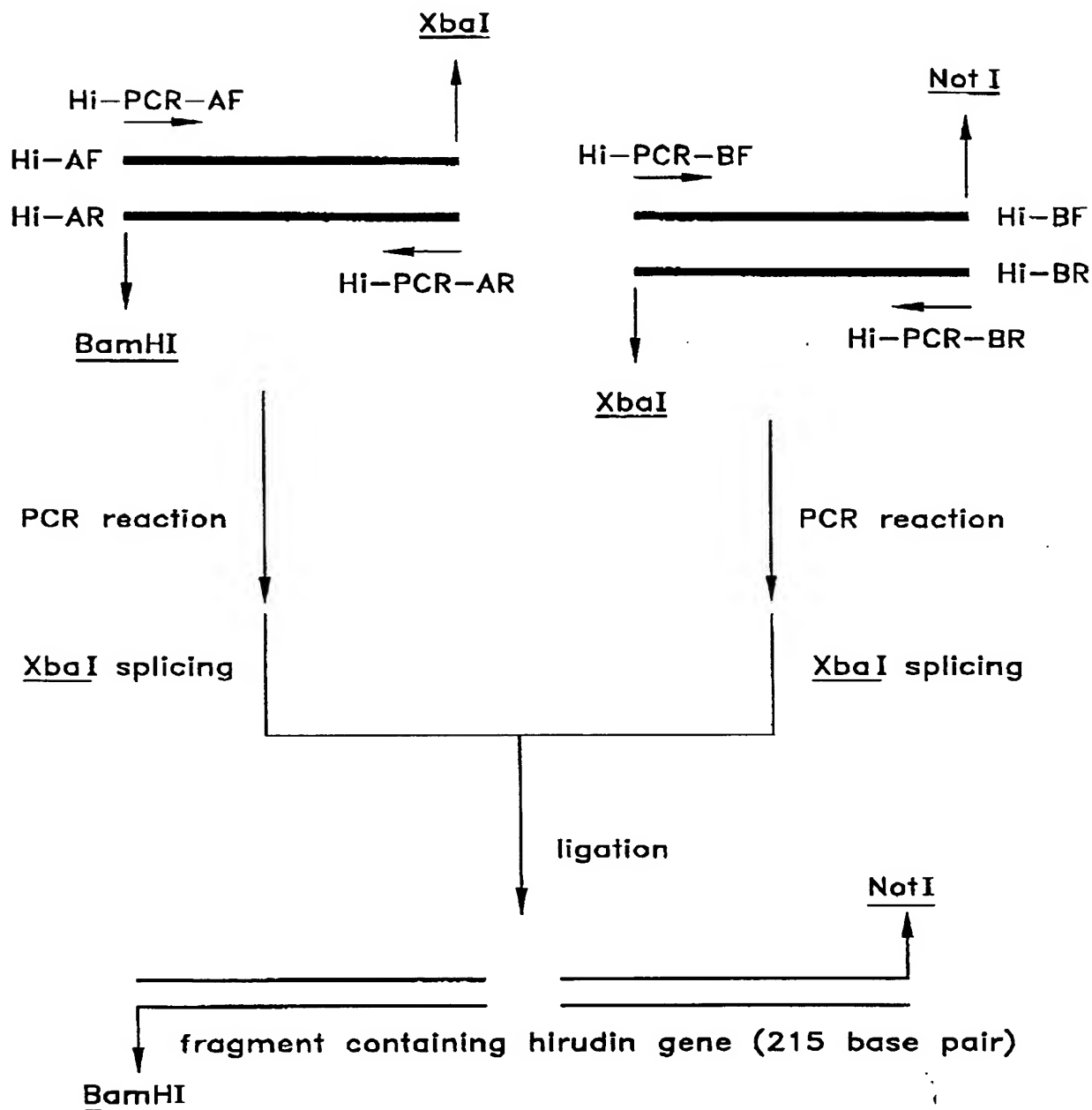


Figure 3



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(A) SEQ ID No. 9

GATCCTTT ATG GTT GTT TAC ACT GAC TGC ACT GAA TCC GGT CAG  
AAC CTG TGC CTG TGC GAA GGC TCT AAC GTT TGC GGC CAG GGC  
AAC AAA TGC ATC CTG GGC TCT AGA GGC GAA AAA AAC CAG TGC  
GTT ACT GGC GAA GGT ACC CCG AAA CCG CAG TCT CAC AAC GAC  
GGC GAC TTC GAA GAA ATC CCG GAA GAA TAC CTG CAG TAA TAGGGC

(B) SEQ ID No. 10

Met Val Val Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu  
Cys Leu Cys Glu Gly Ser Asn Val Cys Gly Gln Gly Asn Lys  
Cys Ile Leu Gly Ser Arg Gly Glu Lys Asn Gln Cys Val Thr  
Gly Glu Gly Thr Pro Lys Pro Gln Ser His Asn Asp Gly Asp  
Phe Glu Glu Ile Pro Glu Glu Tyr Leu Gln

Figure 4

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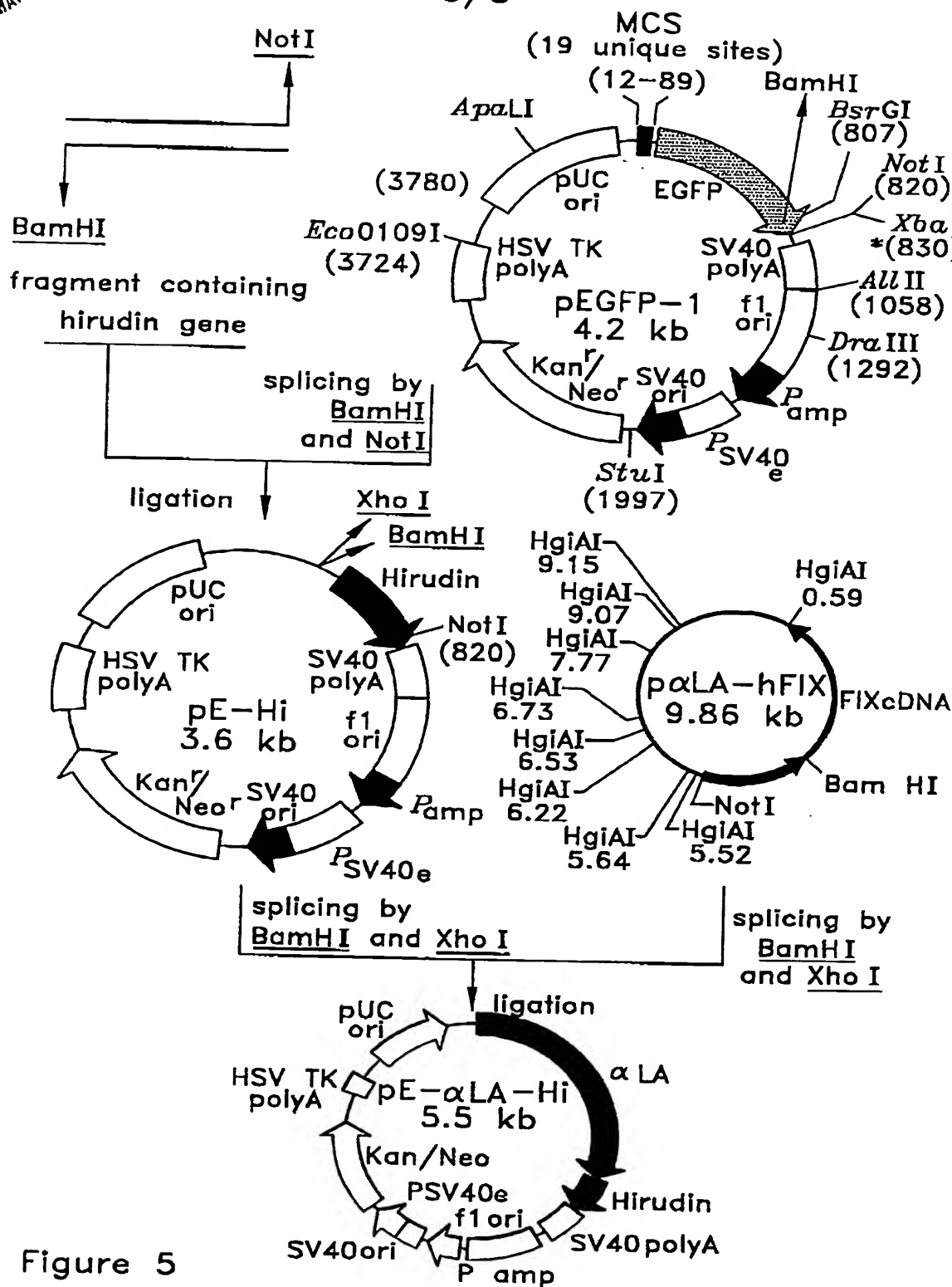


Figure 5



0.03 mg homogenization solution of mammary gland cell

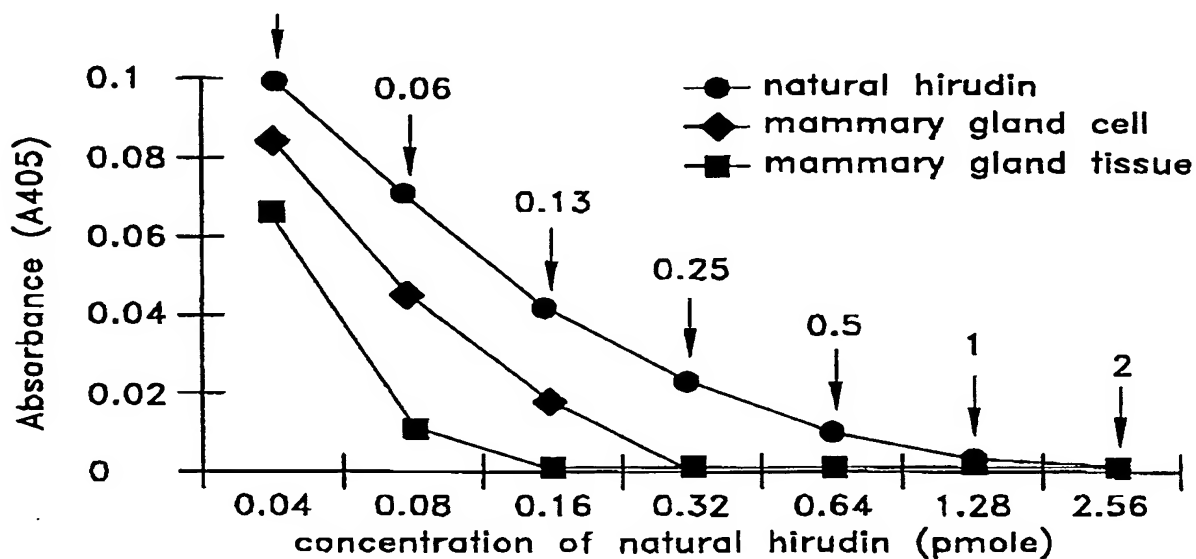


Figure 6



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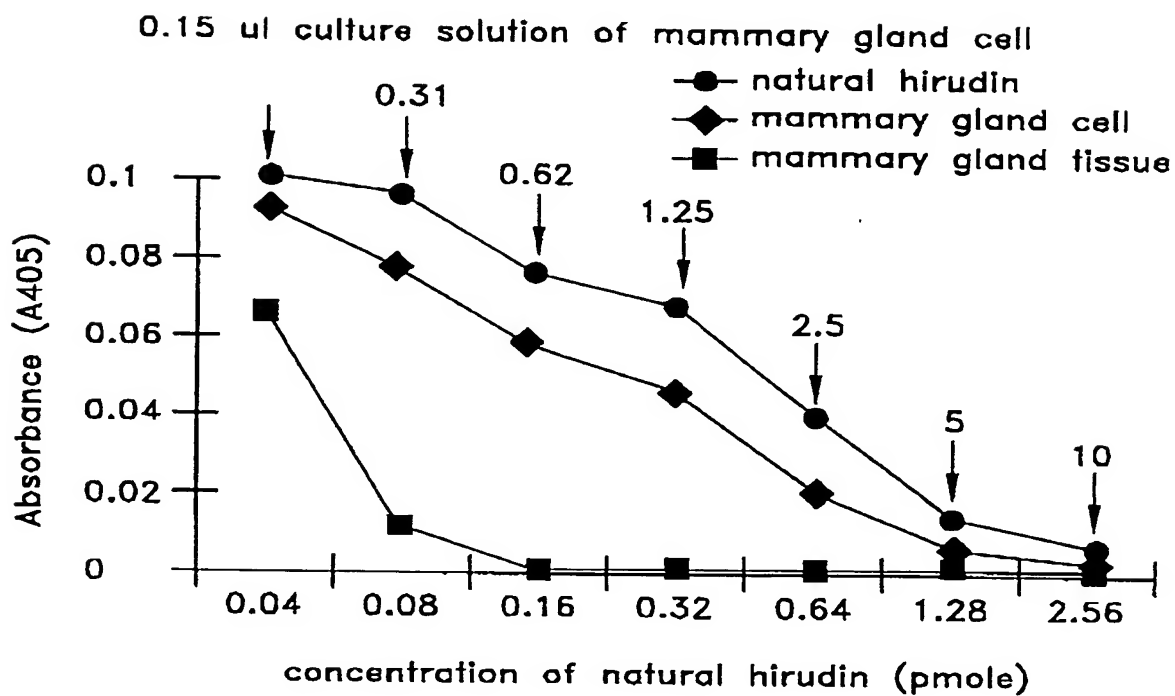


Figure 7



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(A)



(B)

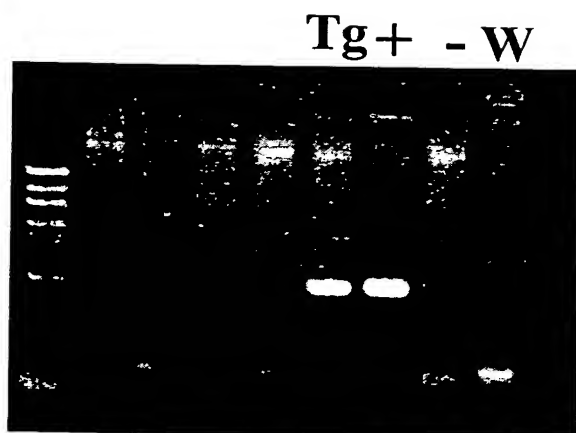


Fig. 8